

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P334559

Luminaire Tested: **S122IP-S1080U840-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334559
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122IP-S1080U840-4F0-1E-UDD
Description: DEFINE 2 INDIRECT LED LUMINAIRE, NO LENS
PENDANT MOUNT, 1080 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

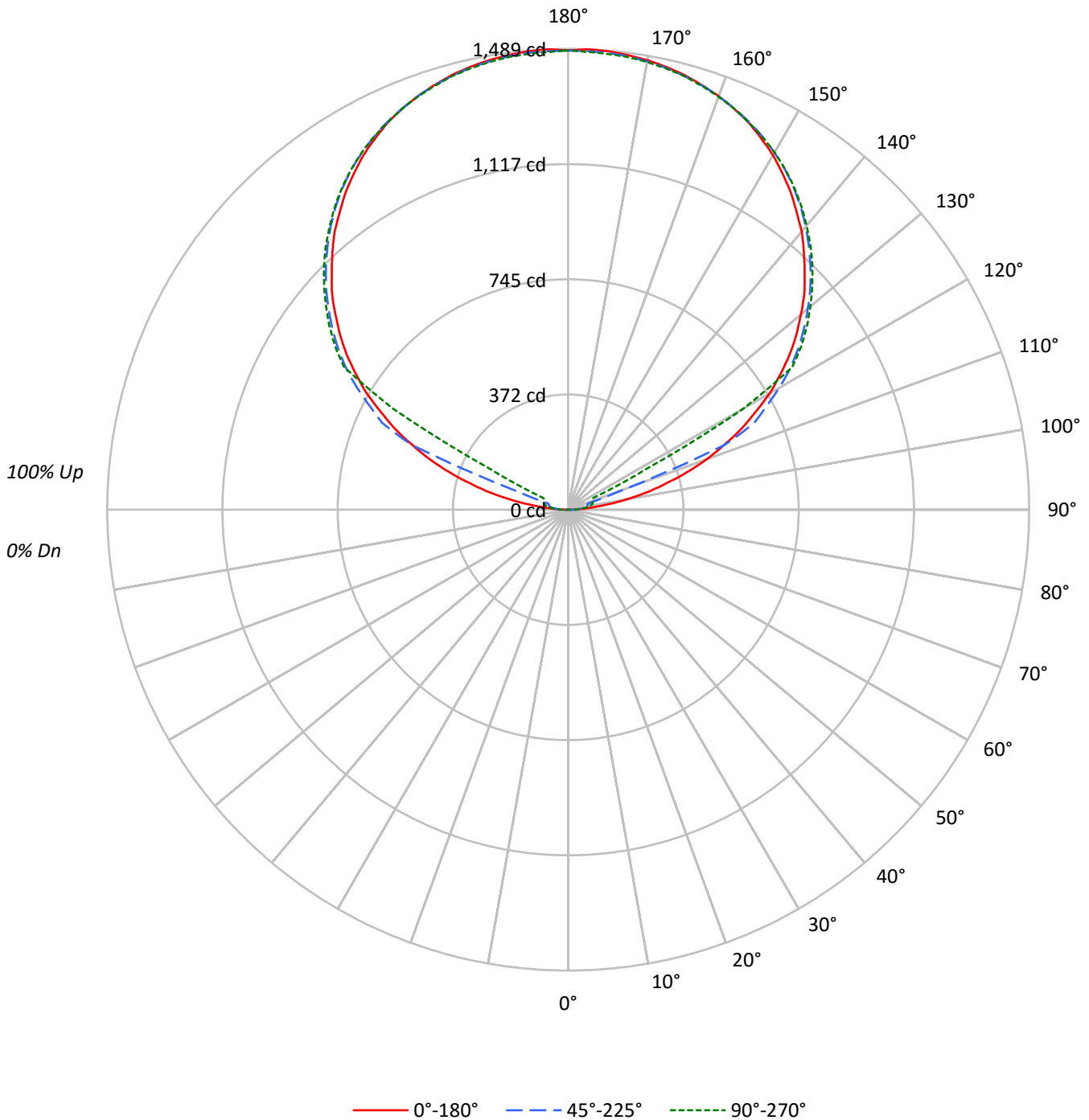
Lumens per Lamp: N/A
Luminaire Lumens: 4352.1 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 41.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	2.6	0.1
90°-100°	48.9	1.1
100°-110°	182.4	4.2
110°-120°	483.7	11.1
120°-130°	802.2	18.4
130°-140°	852.1	19.6
140°-150°	792.0	18.2
150°-160°	636.7	14.6
160°-170°	410.3	9.4
170°-180°	141.2	3.2
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.6	0.1
90°-120°	715.0	16.4
90°-150°	3161.3	72.6
90°-180°	4349.0	99.9
0°-180°	4352.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	1	13	22	27	29	4
95°	70	34	42	47	46	83
105°	326	359	66	77	82	349
115°	617	636	662	165	88	608
125°	873	887	907	915	918	778
135°	1080	1097	1107	1118	1115	834
145°	1253	1252	1270	1278	1272	784
155°	1380	1370	1383	1389	1381	636
165°	1454	1447	1450	1458	1450	411
175°	1487	1479	1482	1489	1478	142
180°	1484	1484	1484	1484	1484	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	1.1	12.9	21.5	26.8	29.0
92.5°	26.8	22.5	25.8	27.9	29.0
95°	69.8	34.4	41.9	47.2	46.2
97.5°	125.6	37.6	54.8	58.0	59.0
100°	190.0	42.9	61.2	69.8	71.9
102.5°	260.9	258.7	63.3	75.1	78.4
105°	326.4	358.6	65.5	77.3	81.6
107.5°	402.6	429.4	67.6	79.4	83.7
110°	475.6	498.1	187.9	80.5	84.8



TEST NUMBER: P334559

CATALOG NUMBER: S122IP-S1080U840-4F0-1E-UDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	544.3	563.6	545.4	82.7	85.9
115°	617.3	635.5	662.4	165.3	88.0
117.5°	680.6	702.1	720.3	566.8	285.6
120°	751.5	767.6	786.9	799.8	654.9
122.5°	811.6	828.8	850.2	856.7	857.8
125°	872.8	886.7	907.1	914.6	917.9
127.5°	928.6	943.6	959.7	970.5	971.5
130°	981.2	998.4	1010.2	1022.0	1020.9
132.5°	1034.9	1048.8	1060.6	1070.3	1069.2
135°	1080.0	1097.1	1106.8	1117.5	1115.4
137.5°	1127.2	1140.1	1150.8	1161.6	1158.3
140°	1173.4	1182.0	1193.8	1203.4	1198.1
142.5°	1212.0	1219.5	1233.5	1242.1	1236.7
145°	1252.8	1251.7	1270.0	1277.5	1272.1
147.5°	1288.2	1285.0	1303.3	1308.6	1304.3
150°	1322.6	1315.1	1332.3	1338.7	1333.3
152.5°	1351.6	1343.0	1359.1	1365.5	1358.0
155°	1379.5	1369.8	1382.7	1389.1	1380.6
157.5°	1402.0	1393.4	1403.1	1410.6	1402.0
160°	1421.4	1414.9	1421.4	1427.8	1420.3
162.5°	1438.5	1432.1	1437.5	1445.0	1435.3
165°	1453.6	1447.1	1450.3	1457.9	1450.3
167.5°	1465.4	1458.9	1462.1	1469.7	1460.0
170°	1475.0	1468.6	1470.7	1478.3	1468.6
172.5°	1481.5	1475.0	1477.2	1484.7	1475.0
175°	1486.8	1479.3	1481.5	1489.0	1478.3
177.5°	1489.0	1481.5	1482.5	1490.1	1480.4
180°	1483.6	1483.6	1483.6	1483.6	1483.6

(END OF REPORT)